



**K.K. Wagh Education Society's  
K.K. Wagh Institute of Engineering  
Education and Research, Nashik.**

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■ **Punyatithi Programme**



Punyatithi Programme was organized in the Institute on 22<sup>nd</sup> July 2019.

The joint Punyatithi programme of Late Padmashri Kakasaheb Wagh, the social reformer Late Tatyasaheb Boraste and the well-known Philanthropist Kakusheth Udeshi was organized in the institute on 22<sup>nd</sup> July 2019. Hon. Adv. Laxman Ugaonkar was Chief Guest of the function. Other Guests included Hon. Shri. Madhavrao Patil (Ex. Member of Parliament), Hon. Shri. Gopal Patil and Hon. Shri. Vishnu Boraste (Retd. Education Officer). All the Guests appreciated the development of K. K. Wagh Education Society. They remembered the work done in initial days by Late Padmashri Kakasaheb Wagh, Shri. Madhavrao Boraste and Shri. Kakusheth Udesi. All the guests were felicitated at the hands of Hon. President of K. K. Wagh Education Society Shri. Balasaheb D. Wagh. For this function Chairman Shri. Balasaheb Wagh, Trustee Shri.Changdevdada Holkar, Trustee Shri. Ashokbhai Merchant and Trustee Shri. Sameer Wagh were present on the dias. For this function all the Principals of various institutes of K. K. Wagh Education Society, Heads of departments and staff were present.

■ **Advisory Committee Meeting**



Advisory Committee Meeting

The 32<sup>nd</sup> Advisory Committee meeting was held in K. K. Wagh Institute Engineering Education & Research, Nashik on 20<sup>th</sup> July 2019. Chairman, Shri. Vivek Sawant and other Advisory Committee members were felicitated by Hon. Shri. Balasaheb Wagh, President, K. K. Wagh Education Society. Advisory Committee members Dr. U. N. Gaitonde, Dr. D. M. More, Dr. V. V. Mahajani and Dr. S. A. Kelkar were present for the meeting. Trustee Shri. Changdevrao Holkar, Shri. Sameer Wagh, Secretary, Prof. K. S. Bandi and Principal Dr. K. N. Nandurkar were present. All Principals and HODs of departments of various colleges of K. K. Wagh Education Society attended the meeting. The action taken report for all institutes and various initiatives for admissions, faculty visits to industries, industrial trainings of faculty of Engineering Institute were presented by Principal Dr. K. N. Nandurkar. This was followed by a detailed presentation by Dr. (Mrs.) Preeti Bhamre on pilot implementation of MKCL Super Campus in all first year engineering classes and the IQAC initiatives for improving teaching-learning of Engineering Mechanics. Ms. Namrat Pagare spoke about use of Crossword puzzles, Mr. Pratik Kadam presented the details of

Challenging Programming Contest, Mr. Santosh Sangale discussed use of Edpuzzle & Edmodo platform, Ms. Shital Wani shared experiences of using Super Campus in her teaching of Engineering Mechanics while Mr. Pankaj Beldar discussed interesting idea for paper models, Grapher Android App and techniques to teach Matlab Programming to Mechanical Engineering students. Ms. Amrutha Hippalgaonkar shared the cooperative learning strategies like Jig Saw activity and situation based role play techniques.

**Governing Body Meeting**



Governing Body Meeting on 26/07/2019

Governing Body Meeting of the institute was held in Central Office under the Chairmanship of Hon. Balasaheb D. Wagh, President, K. K. Wagh Education Society, Trustee of K. K. Wagh Education Society Hon. Shri. Changdeorao B. Holkar, Mr. Shrikant R. Karode, Senior Consultant, Principal Dr. K. N. Nandurkar, Prof. Dr. S. S. Sane and other members were present for the meeting.

**Poster Competition by ISTE**



Poster Competition winners

The Indian Society for Technical Education (ISTE) Students' Chapter of K.K. Wagh Institute of Engineering Education and Research organized an institute level Poster Competition on Wednesday, July 17, 2019. The event was responded overwhelmingly with 183 participants bringing in a total of 112 posters across two themes- 50 on "AI vs. Human" and 62 on "Yoga and health". The competition was organized under the guidance of Principal Dr. K.N.

Nandurkar and posters were judged by Dr. S. J.Gadge and Prof. Vandana Bagal. The prize distribution and felicitation ceremony were held on the same afternoon with Mr. Hrushikesh Wakadkar, Co-Founder of eLuminous Technologies Pvt. Ltd. and Vice President at NITA (Nashik Information Technology Association), as the Chief Guest. He highlighted upon the importance of reading different blogs and books and participating in extracurricular activities to enhance one's spectrum. He also advised the students to explore themselves and keep a good knowledge of our domain in order to use these resources to showcase their creativity. Principal Dr. K.N. Nandurkar, Dr. S. S.Sane, Head of Computer Department and Mrs V. R. Lele, Faculty Advisor, ISTE Students' Chapter, Ms. Archana Mourya, were also present for this occasion.

**Tree Plantation**



Tree Plantation at Trambakeshwar

NSS unit of institute had organized "Tree Plantation Activity" in association with Maharashtra Forest Department under celebration of Golden Jubilee of K. K. Wagh Education Society. This activity was carried out on Monday, 1<sup>st</sup> July 2019 at Rohile (Tal- Trimbakeshwar, Dist- Nashik). NSS volunteers planted 110 saplings on this site of forest department. Prof. Swanand Dongare (NSS Coordinator) and Mr. Rajendra Magdum (Asst. Conservator of Forest) guided the volunteers for same.

**Homage to Kakusheth Udeshi on his Death Anniversary**



Homage to Kakusheth Udeshi

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On 9<sup>th</sup> July 2019 paid homage to Kakusheth Udeshi on his Death Anniversary. Hon. Kakusheth Udeshi donated 23 acres of land to K. K. Wagh Education Society, Nashik on which the main campus has been developed. For this program Principal Dr. K. N. Nandurkar and all Heads of department were present.

**“Environment Conservation and Trekking”**



Expert Lecture on 'Environment Conservation and Trekking'

Environment Club of K. K. Wagh Institute of Engineering Education and Research, Nashik organized an expert lecture “Environment Conservation and Trekking” on 30/07/2019, by Mr. Amrutkar. All students and staff of the institute attended the lecture, in large number.

**Visit to Industries**



Visit to JBM, Nashik



Visit to HPCL, Nashik



Visit to Gabriel Ltd.

In the month of July 2019, K. K. Wagh Institute of Engineering Education & Research, Nashik team visited around 16 companies with an objective of further strengthening the relations between K K Wagh IEER and respective organizations to explore Internships, Campus Interview, Centre of Excellence and mutual areas of cooperation. Visited company includes: Kirloskar Oil Engines Ltd, Gabriel Ltd, DRDO- Nashik, JBM Auto Ltd., Nashik, Kimaya Stell Pvt., Ltd., Nashik, L&T InfoTech, Mumbai etc

**Employability Enhancement Programs**

T & P Cell of the institute conducted Mock Campus Interview for Final Year students. T & P Cell Also organized One day workshop for Second Year Students by Mr. Subodh Deshmukh. Zensar Technologies conducted Six days training for final year Computer and IT students for enhancing their technical skills.



Participants of six days Zensar Technologies Training from 1<sup>st</sup> July to 6<sup>th</sup> July-2019



Participants of one day workshop for SE Students by Mr Subodh Deshmukh



Mock Campus Interview for Final Year Students

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Mock Campus Interview for Final Year Students

### ■ Faculty development program (FDP) on "Programming and Problem Solving"



Participants of one day Faculty Development Program on "Programming & Problem Solving" Department of Computer Engineering of our institute successfully conducted One day state level Faculty Development Program (FDP) on "Programming and Problem Solving on 17<sup>th</sup> July 2019. Around 50 Participants from various institutes attended the FDP and expressed their happiness for conducting such events. Eminent speakers from academics and industries like Prof. Dr. Varsha H. Patil (Chairperson, Board of Studies, Computer Engineering, Savitribai Phule Pune University, Pune), Dr. R. Venkateswaran (Senior Vice-President, IOT Solutions, Persistence Systems, Pune) and Dr. Ramchandra S. Tiwari (Technical Director, Cognifront, Nashik) guided the participants.

### ■ Karmaveer Premier League (KPL) Tournaments



Volleyball Match



Basketball Match

Karmaveer Premier League Tournaments were held successfully in the institute by Gymkhana Department. The result of various sports held under it is as follows:

1. KPL (Cricket): Winner- Mechanical Engineering department (IInd Shift)
2. KFL (Football): Winner- Civil Engineering department
3. KVL (Volleyball): Winner- Mechanical Engineering department (1<sup>st</sup> shift)
4. KBL (Basketball): Winner- Electrical Engineering department

### ■ Expert Lecture/Seminar/Courses/Worshop Organized:

- Computer Engineering Department has organized Orientation program for SE students on 05<sup>th</sup> July 2019. Program began with welcome speech by Prof. Dr. S. S. Sane, Head of Computer Engineering Department. Prof. N. M. Shahane briefed about NBA and Outcome based education. Prof. Dr. S. M. Kamalapur explained Rules and regulations related to academics and plan for autonomy. Same department also organized an expert talk on "Introduction to Data Analysis" by Mr. Mahesh Jadhav, TCS Pune for final year student of Computer Engineering on 12/07/2019 and an expert talk on the topic "Enhancing presentation skills" by Mr. Shrikant Karode on 13/07/2019. Same department also organized an Expert talk on "Cyber Security" on 15<sup>th</sup> July 2019 by Mr Tanmay Dikshit and an expert talk on the topic "Recent Trends in Technology" on 17<sup>th</sup> July 2019 in association with Student Branch of CSI.
- Production Engineering department organized expert talk on the topic "Quality Tools" for final year students on 06/07/2019 by Mr. Nilesh Jadhav, Nirmitti Precision Pvt. Ltd., an expert talk by Mr. Endait Santosh of Lear Corporation Ltd. on the topic "Six Sigma" on 20/07/2019 and an expert talk by Mr. Amit Joshi for students of third year Production Engineering on "Introduction to Ansys Software" on 12/07/2019. Same department also organized an expert talk by Mr. Anand on the topic "Electric Vehicle" on 30/07/2019.
- Electrical Department organized Expert lecture on "Project Guidance and report writing" by Prof. Dr. R. K. Munje for TE & BE Electrical students on 05/07/2019, Expert lecture on "Electrical Safety" by Mr. S. G.

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Pande, Executive Engineer MSEB (Retired) Nashik for SE & TE Electrical students on 12/07/2019 and an Expert lecture on "Job Opportunities in Gulf for Electrical Engineering" by Mr. Ashish Chavhan for BE Electrical students on 19/07/2019. Same department also organized an Expert lecture on "Basics of PLC & SCADA" by Mr. Anil Aher, Sr. Project Engineer, TAACT, Nashik for TE & BE Electrical students and staff of the department on 05/07/2019, an Expert lecture on "Voltage regulation, methods of voltage regulation, significance of voltage regulation, parallel operation, effect of excitations and steam power input on the generator performance" by Mr. Abhijit Borade, Deputy Executive Engineer, Nashik Thermal Power Station, Eklahare for T.E. Electrical (I-Shift) students on 30/07/2019.

- Electronics Engineering Department has organized Two days' workshop on "Application of MATLAB & SIMULINK in Engineering Application" by Mr. Pavankumar Fakatkar & Mr. Suraj Gawande from 12 – 13<sup>th</sup> July 2019. Same department also organized Essay competition on "E-waste Management" by IETE on 15/07/2019 and Project Lab Design Context by IETE on 19/07/2019. Same department also organized an Expert lecture on on 20/07/-2019 on "Opportunities through GATE and M. Tech" under career development cell by Mr. Sushil Kumar Suman (Qualified in Engineering Service Exam, UPSC), MOCK Interview for Final Year Electronics Engineering Students by Experts from career forum and department technical team on 23/07/2019.
- Department of Mechanical Engineering organized an expert talk on "Electric Vehical and its Design Challenges" by Mr. Anand Thakar (CAD/CAM Guru) Pune on 30/07/2019, and expert talk on "Metrology and Quality Control" by Mr. Suhas Bhavsar (Quality Training Center Nashik) on 02/07/2019 and an expert talk by "Analysis of cantilever beam using ANSYS Workbench" by Mr. Amit Joshi on 20/07/2019.
- Chemical Engineering Department has organized expert lecture on "Education in Abroad" by Miss Tejaswini Vaidya (Alumnus of 2018 batch, Pursuing M.S at U.S.) on 08/07/2019 and an expert lecture on "Innovative Project" by Dr. P. V. Pathak, Ret. Professional, Member of GEDA, Goa on 17/07/2019.

- The Dept. of Information Technology had conducted a seminar on "Road Safety" by Mr. Vinay Ahire, Deputy RTO, Nashik on 15<sup>th</sup> July 2019 and session on "Enterprise Mobility" Mr. Ajit Kulkarni, Vice President, MindStick Software Pvt., Ltd., Pune on 23<sup>rd</sup> July 2019. Same department had also organized a Group Discussion on 6<sup>th</sup> July 2019 for SE, TE and BE students and "Debate Competition" on 12<sup>th</sup> July 2019 for their students.
- MCA department has organized Expert Lecture on "Principles of Software Testing" by Prof. S. S. Banait on 25<sup>th</sup> July 2019.
- MBA department has organized Expert lecture on topic "Opportunities for finance graduates as freelancer in Financial Services" by Mr. Sandeep Kulkarni on 20<sup>th</sup> July 2019 and an Expert lecture on topic "Career Opportunities in Research Industry for Management Graduates" by Mr. Swapnil Nannir on 27<sup>th</sup> July 2019.

#### ■ Seminars/Workshop/Training attended by Staff:

- Electronics Engineering Department staff Prof. D. D. Khartad attended Faculty Orientation Workshop for F.E. Revised Syllabus 2019 Course on "Basic Electronics Engineering" on 22/07/2019 organized by Savitribai Phule Pune University, Pune.
- Prof. T. K. Kandekar (Gymkhana Director) has attended the Physical Education seminar organized by Savitribai Phule Pune University and Sangamner College at Malpani Resort Sangamner.

#### ■ Industrial Visits Organized For Students:

Date	Class	Name of Company
15/07/2019	B.E. (IT)	Kupfersmittel India Pvt. Ltd., Ambad, Nashik
16/07/2019	MBA II Year	Reliance Electronics, Ambad, Nashik
23/07/2019	MBA II Year	Caprihans India Ltd., Satpur, Nashik
26/07/2019	S.E. Chemical	Sunshine Paints, Ambad

#### ■ Training & Placement :

Name of Company	Name of the Dept.	No.of students selected
Josh Software Pvt. Ltd.,Pune	Information Technology	01
Nikhil Medico, Nashik	Chemical Engg.	02
M Power Nashik	Chemical Engg.	03

#### ■ Other Activities:

- Prof. Dr. K. N. Nandurkar visited C4i4 Lab at Pune on 08<sup>th</sup> July 2019 to meet Dr. Anita Khestri and Mr. Navalgundkar (Director, Samarth Udyog Technology Forum) to explore the possibility of setting up IoT lab in the college and impart training to nearby SMEs on Industry 4.0.

- Book - The book entitled “Evolutionary Computations for Manufacturing” authored by Prof. Dr. P. J. Pawar, Head, Department of Production Engineering, was published by Studium Press India Pvt. Ltd. with ISBN 13 : 978-93-85046-52-0.

The author has used his extensive expertise in the field of advanced optimization techniques to explain the concepts presented in the book. The book has been written by the author keeping in view the recent technological advances like industry 4.0. The book provides theoretical concepts and practical applications of several successful evolutionary computational methods such as genetic algorithms, particle swarm optimization, artificial bee colony algorithm, shuffled frog leaping algorithm, simulated annealing algorithm, harmony search algorithm, teaching - learning based optimization algorithm, fuzzy optimization and multi objective optimization.

**Book Chapters** – Four book chapters authored by the departmental staff members were published in the book “Advanced Engineering Optimization through Intelligent techniques” in the series “Advances in Intelligent Systems and Computing”, Vol 949, with ISSN: 2194-5357; published by Springer Nature Singapore Pvt. Ltd. 2020. The details are as given below.

- **“Optimization of Magnetic Abrasive Finishing Process Using Principal Component Analysis”**

S. B. Gunjal and Dr. P. J. Pawar

**Abstract:** Study of process parameter and their selection is very important in the process performance point of view; this issue is attempted mostly by Taguchi method. However, Taguchi approach can be applied only to single-objective problem, and in case of multi-objective problem, it gives different levels and it becomes difficult to interpret these results. Principal component analysis (PCA) transforms the set of uncorrelated components to get the optimum level of combination for all the responses. In this paper, PCA is applied to a case study having three responses, i.e., change in surface roughness, tangential cutting force, and normal magnetic force. The levels of parameters obtained by PCA show the improved results for responses than those obtained by Taguchi method.

- **“Multi-objective Optimization of Wire-Electric Discharge Machining Process Using Multi-objective Artificial Bee Colony Algorithm”**

Dr. P. J. Pawar and M. Y. Khalkar

**Abstract:** The selection of optimum process parameters in wire-electric discharge machining process such as peak current, wire tension, water pressure and duty factor plays a significant role for optimizing the process performance measure. In this paper, multi-objective optimization of wire-electric discharge machining (wire-EDM) is done using recently developed evolutionary optimization algorithm. The advanced algorithm developed for the purpose of optimization is known to be multi-objective artificial bee colony (MOABC) algorithm. The objectives considered in this work are material removal rate and wear ratio and subjected to the constraint of surface roughness.

- **“Integrated Production Planning and Scheduling for Parallel Production Lines”**

K. C. Bhosale and Dr. P. J. Pawar

**Abstract:** Production planning department prepares demand for the coming months considering the plant capacity, available time. Depending on this demand, inventory of the raw material is kept in the production unit. While, in the scheduling problem, the time horizon is selected as a shift, day or week. Scheduling model determines the start time, processing time, finish time and transition time. However, in most of the reported literature, production planning problem and scheduling problem are solved independently. But, to achieve the global optimum solution and minimise material flow and reduce the total cost, there is a need of integrating production planning and scheduling model. A case study based on the parallel line continuous process plant is selected and optimization is obtained by real coded genetic algorithm (RCGA). Results show that RCGA outperforms the solutions obtained by previous researchers



Prof. Dr. K. N. Nandurkar  
PRINCIPAL

